Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently Amended) A method of forming a piconet in a wireless communications device, the method comprising:
- (a) transmitting a beacon packet <u>from the wireless communications device</u> across a wireless channel during a first predetermined time interval;
- (b) scanning the wireless channel <u>from the wireless communications device</u> for a second predetermined time interval, the second predetermined time interval immediately following the first predetermined time interval;
- (c) receiving a piconet joining request packet from a remote wireless communications device during the second predetermined time interval; and
- (d) transmitting a confirmation packet to the remote wireless communications device during a third predetermined time interval, the third predetermined time interval immediately following the second predetermined time interval.
- 2. (Original) The method of claim 1, wherein the piconet joining request includes a request for a role switch.
 - 3. (Original) The method of claim 2, further comprising receiving a beacon packet from the remote wireless communications device.
- 4. (Original) The method of claim 1, wherein the beacon packet, the piconet joining request packet, and the confirmation packet each include one or more OFDM symbols.
- 5. (Original) The method of claim 1, wherein the wireless channel employs a frequency hopping pattern.
- 6. (Currently Amended) A method in a wireless communications device, comprising:

- (a) transmitting a first beacon packet from the wireless communications device across a wireless channel during a first predetermined time interval;
- (b) scanning the wireless channel from the wireless communications device for a second predetermined time interval, the second predetermined time interval immediately following the first predetermined time interval;
- (c) receiving a request for additional information from a remote wireless communications device during the second predetermined time interval; and
- (d) transmitting the additional information with a second beacon packet across the wireless channel.
- 7. (Original) The method of claim 6, wherein the additional information includes available services from the wireless communications device.
- 8. (Original) The method of claim 6, wherein the additional information includes identifiers of devices that are in a piconet with the wireless communications device.
- 9. (Original) The method of claim 6, wherein the wireless channel employs a frequency hopping pattern.
 - 10. (Original) A wireless communications device, comprising:

means for transmitting a beacon packet across a wireless channel during a first predetermined time interval;

means for scanning the wireless channel for a second predetermined time interval, the second predetermined time interval immediately following the first predetermined time interval;

means for receiving a piconet joining request packet from a remote wireless communications device during the second predetermined time interval; and

means for transmitting a confirmation packet to the remote wireless communications device during a third predetermined time interval, the third predetermined time interval immediately following the second predetermined time interval.

11. (Original) A wireless communications device, comprising:

means for transmitting a first beacon packet across a wireless channel during a first predetermined time interval;

means for scanning the wireless channel for a second predetermined time interval, the second predetermined time interval immediately following the first predetermined time interval;

means for receiving a request for additional information from a remote wireless communications device during the second predetermined time interval; and means for transmitting the additional information with a second beacon packet across the wireless channel.

12. (Original) A wireless communications device, comprising:

means for monitoring a wireless channel for transmissions during a predetermined time interval;

means for receiving a beacon packet from a remote wireless communications device across the wireless channel during the predetermined time interval; and

means for, immediately following receipt of the beacon packet, sending a response packet to the remote wireless communications device when the remote wireless communications device is the only device transmitting device during the predetermined time interval.

13. (New) A system for forming a piconet of a plurality of wireless communications devices, the system comprising:

a beacon-transmitting device that transmits a beacon packet across a wireless channel during a first predetermined time interval; and

a remote wireless communication device that receives the beacon packet and transmits a piconet joining request during a second predetermined time interval, the second predetermined time interval immediately following the first predetermined time interval,

wherein the beacon-transmitting device receives the piconet joining request packet during the second predetermined time interval and transmits a confirmation packet to the remote wireless communications device during a third predetermined time interval, the third predetermined time interval immediately following the second predetermined time interval.

- 14. (New) The system of claim 13, wherein the piconet joining request includes a request for a role switch.
- 15. (New) The system of claim 14, wherein the remote wireless communications device transmits the beacon packet and the beacon-transmitting device receives the beacon packet.
- 16. (New) The system of claim 13, wherein the beacon packet, the piconet joining request packet, and the confirmation packet each include one or more OFDM symbols.
- 17. (New) The system of claim 13, wherein the wireless channel employs a frequency hopping pattern.